PSIptt – Push-To-Talk
User manual
Mobile phone

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PSI

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1 Quickstart

1.1 Installation

Install the PSIptt.sis-software on your mobile phone. The software can be transferred via memory card, USB-connection to your desktop pc or internet download. If you are not familiar with this procedure, follow instructions described in chapter 2.

After the installation, Push-To-Talk will start automatically every time you will switch on your mobile phone. To reach the user interface easier, we recommend to install a hotkey for PSIptt.

1.2 Preparation

To work with PSIptt Push-To-Talk the software has to be prepared once only after the installation.

Starting the software for the first time, you have to select an access point which enables the internet connection. Using Vodafone D2, „web.vodafone.de“ or „VF DE WEB“ normally grants you access.

(In case of problems concerning the access point, please contact your mobile communications provider. To supply you with the correct setting, usually an automated configuration sms will be sent.)

The access point you have now selected is saved and will be reused on the next occasion. (If you would like to choose another access point later, use the PSIptt-menu *Options -> Settings -> Access Point.)*

Afterwards you will be asked for your password. The standard setting for your user registration at the server is based on the „IMSI“ of your SIM-card. If this is appropriate for you, you just have to enter your password, and the connection to the server is established.

To register your user name you choose *Options -> Settings -> Account*; afterwards you go the index *User* and choose „Username“ as your login-method. Fill in „Username“, „Customer“ and „Password“. Be careful to name different server name („Host“) and „Port“ on the index *Connect*, if necessary.

The software is now prepared, and after a few moments you will be registered as a member of your group.

1.3 First steps

1.3.1 Talk

Press and maintain a hotkey (e.g. the central key); your channel will now be opened and you can talk to your group. After the message you have to release the key in order to unblock the channel for all other group participants.

1.3.2 Change status

Using the button *Select Status* on your interface, it is possible to change your status, visible for other group participants. This list is set in advance by the administrator. Each status can have different qualities; e.g. there will be no voicemails received or sent in the Meeting Mode status. In spite of this, text messages will be delivered.

1.3.3 Change group

Using *Options -> Select Group*, a list of groups unblocked for you will be shown, so you can change to a particular group.

2 Software installation

2.1 Software installation on Windows Mobile Devices

There are different versions of the operating system Windows for mobile devices, which are supported by corresponding versions of PSIptt Push-To-Talk.
Most devices today are equipped with Windows Mobile 6, but there are also devices left running Windows Mobile 5 or Windows CE. For each of these operating systems there is a special installation file. Please choose the right file for installation as follows:

- Windows Mobile 6: PSIptt.cab
- Windows Mobile 5: PSIpttWM5.cab
- Windows CE: PSIpttCE.cab

Perform the following steps to install the PSIptt.cab file:

- PC: Connect mobile device to PC over USB cable.
- PC: Start Microsoft ActiveSync, if it doesn't start automatically. Wait until ActiveSync reaches status "Connected".
- PC: In ActiveSync Click "Explore" button in toolbar. This will open an Explorer windows.
- PC: Drag-and-Drop PSIptt.cab in the Explorer window. Wait until the file has been copied on the device. After that you may disconnect mobile device from your PC.
- Mobile Device: Start File Explorer and navigate it to "My Documents" folder.
- Mobile Device: Open PSIptt.cab file and follow instructions.
- Mobile Device: If you see the message "**The program is from unknown publisher**", select "**Yes**" to continue installation.

2.2 Software installation on Symbian S60 Devices

Connect your mobile phone via the included USB cable to your PC.
If your mobile phone now asks for a state of connection, please choose "Data Transfer".

If not, please make sure that the chosen standard mode is "FileTransfer" rather than "MediaPlayer" or "PC Suite".

Therefore you have to enter the configuration menu of your mobile phone:
- Enter main menu with the menu key (appearance may vary, depending on your mobile phone model: i.e. a blue wave symbol or a little house)
- Click the icon named *Tools*

- Click the icon named *Settings*
- Choose the tab *Connections*
- Choose *USB*
- Use this menu to configure the proper transfer mode. (in this case: *DataTransfer*)

Windows will now establish a connection to the bulk memory of your mobile phone. Therefore it is necessary that your mobile phone contains a SD-, MiniSD- or MicroSD-card.
(Please notice: Nokia N95 8GB uses built-in memory and does not need external storage devices.)

Now you should be able to access your memory card via the file manager.
Please copy the *sis - file to your memory card. (e.g. via drag'n'drop or click right *->copy*, than click right-*>insert*)

Now separate the connection to the bulk memory of your mobile phone by clicking the small green-grey symbol in the system tray in the lower right first, than click *remove bulk storage media* to cut the connection to your mobile phone.
Then separate USB-connection between your PC and your mobile phone.
Afterwards, go to the file manager of your phone. You will find this browser in the main menu, depending on your mobile phone model:

• **Nokia N-Series**
• main menu
• Icon *Tools*
• Icon *File Manager*)

• **Nokia E-Series**
• main menu
• Icon *Office*
• Icon *File Manager*)

Now activate the bulk memory of your mobile phone by pushing the navigator key right once. Scroll down completely with the navigator key and open the *sis – file, you have copied. Follow installation instructions now. Afterwards, PSIptt should be installed regularly; you will find it on the autostart routine of your mobile phone.

Advice for Linux Users:
The installation should be done in the exact same way: Connecting, copying *sis – file and separating should work without any problem via the file browser used, but may vary in different distributions.

3 Use of PSIptt software

3.1 Starting PSIptt software

If everything was installed properly, your mobile phone is now connecting automatically with PSIptt at every start. You are always in your active group, with which you want to communicate. The name of your group is displayed in the upper region of the application´s main window.

3.2 Functions of PSIptt software

3.2.1 List of participants

The list of current participants, which is also the list of participants in the active group you are communicating with, is always shown in the main window of PSIptt application in the lower left area.

Every group participant is indicated with his alias and status, combined with a coloured symbol according to the status.

3.2.2 Talk to group participiants

To talk to other participants of your group, please press and maintain one of the defined hotkeys and speak into your microphone.

Some keys of your mobile phone are defined for PSIptt Push-To-Talk as a standard. It´s regardless, if the application is in fore- or background; it even works, when the keys of the mobile phone are locked. This is necessary to use PSIptt simple and effectively in case of an emergency.

These hotkeys depend on your mobile phone model and can be selected via *Options -> Settings -> Hotkeys*.

Concerning Nokia models, the following keys are defined when your phone is delivered:

• the central or navigator key (in the center)

• the key showing a little pen - symbol (Nokia N-series only)

• the *C*- rather correction or backspace key (N- and E-series)

3.2.3 Change active group

If you are granted access to various groups, you can switch among them via *Options -> Select Group*. Therefore, your phone must be unlocked and the application has to be in foreground. After opening you will see a list of all groups available. Select the chosen group and confirm with the central key or *Ok*.

3.2.4 Display of group participants via map

Using *Options -> Show Map* a road map is displayed if PSImap.jar is installed on your device and you have ordered PSImap - service.

After starting, please answer possible queries to allow the program to send and receive data.

You must select the same access point as you chose for PSIptt via *Options -> Settings -> Account*. PSImap is a technically independent application; because of that, the operating system demands an individual confirmation.

Using the cursor keys you can move the map; Zoom Out will reduce the scale of the map sector shown, Zoom In (using the central key) will increase this scale.

You can leave the map-mode via *Options-> Exit* or choose another located user of your group and display him via *Select User*.

3.3 Settings of PSIptt software

3.3.1 Positioning

Using *Options -> Settings -> Positioning,* the positioning signal of your mobile phone can be activated or deactivated.

There are three settings defineable:

- „On (Auto)“
- „Cellbased“
- „Off“

„On (Auto)” is the standard setting and locates the position of your mobile phone via a Global Positioning System (GPS)-receiver, if available. This GPS-receiver can be installed internally or connected to your phone externally via Bluetooth. When there is neither satellite signal nor GPS-receiver available, data of the cellular radio system will be used for positioning.

„Cellbased“ indicates that data of the cellular radio system is always used for positioning, regardless of GPS-receivers available.

„Off“ indicates that the positioning signal is turned off.

Depending on this setting, your device is able to broadcast positioning data for a user. If this actually happens depends on the preset status settings by the administrator. If the positioning data broadcast is turned off for your status, neither the setting „On (Auto)“ nor the setting „Cellbased“ will display any position.

The setting „Off“ is not overwritten by the defintion of the status; when the positioning function of your device is set on „Off“, no positioning data is delivered, even if this is scheduled by the status.

The accuracy of positioning depends on many factors which are not determinded by the software, e.g. reception of your device or weather conditions. In general one can assume the following precision for positioning:

- GPS-positioning from 5 to 25 meters accurate
- „Cellbased“ positioning from 200 to 800 meters accurate

3.3.2 Sounds

Using *Options -> Settings -> Sounds* you can set system sounds and voice playback.

There are three fields within the setting:

- „General“
- „Incoming Calls“
- „Outgoing Calls“

The field „General“ enables the following settings:

- „Master-Volume“ turns up and down the volume of voice playback and system sounds (Standard setting: 100%) *Available from version 1.4.7*

- „Voice-Boost“ amplifies voice playback (Setting: On) by the power of 10 for the use in a louder environment (Standard setting: Off)
- „Connection Established“ turns on or off a system sound (On / Off) which sounds when a connection to the server is established. The system sound is a sequence of three notes in rising pitch. (Standard setting: Off)
- „Connection Lost“ turns on or off a system sound (On / Off) which sounds when the connection to the server is interrupted, e.g. by the loss of the connection to the cellular radio system. The system sound is a sequence of three notes in descending pitch. (Standard setting: Off)

The field „Incoming Calls“ enables settings concerning system sounds for incoming voicemails:

- „Call“ turns on or off a system sound (On / Off) which sounds before an incoming voicemail is played. (Standard setting: Off)
- „Call finished“ turns on or off a system sound (On / Off) which sounds after an incoming voicemail is played. This also means that a voice channel is open again, so you can answer to your voicemail. (Standard setting: On)
- „Call delayed“ turns on or off a system sound (On / Off) which sounds before an incoming but delayed voicemail is played. Delayed is defined by the administrator as: Could not be delivered in a certain amount of time (Standard: 60 seconds). (Standard setting: Off) *Available from version 1.5*

The field „Outgoing Calls“ enables settings concerning system sounds for outgoing voicemails:

- „Call“ turns on or off a system sound (On / Off) which sounds if the voice channel is opened and you can start talking. This is especially helpful when using Bluetooth-headsets, because - depending on the used model - setting up a voice channel out of Standby could last longer. (Standard setting: On)
- „Call finished“ turns on or off a system sound (On / Off) which sounds if the voice channel is closed. (Standard setting: Off)
- „Call failed“ turns on or off a system sound (On / Off) which sounds if the voice channel cannot be opened while trying to send a message; reasons could be another user is sending or no connection to the server is established. (Standard setting: On)

3.3.3 Display

Using *Options -> Setting -> Display* you can adjust settings for the display. These settings are divided into the fields „Incoming Calls“ and „Outgoing Calls“.

The settings are identical for both fields and concern receiving („Incoming Calls“) or sending („Outgoing Calls“) voicemails. The two settings are:

- Pop-Up
- Light

In the following these settings are depicted in detail.

Pop-Up

Pop-Up means that the user interface of PSIptt Push-To-Talk comes to the fore, if it not already is. This is useful sending (as you can see, who is receiving the message) as well as receiving (as the application shows you, who is sending).

The settings are:

- „always“: The application always comes to the fore while receiving or sending messages. This option should be used carefully for incoming calls: If you are using another application the same time (e.g. e-mails), the automatic switch to PSIptt could be considered disturbing.
- „if keylock on“: The application comes to the fore while receiving or sending messages if the keys of your device are locked. (Presence of application depends on mobile phone model and Light- settings).
- „if keylock off“: The application comes to the fore while receiving or sending messages if the keys of your device are unlocked. (Presence of application depends on mobile phone model and Light- settings).
- „never“: The application is not switched to the foreground automatically.

Light

This setting can switch on the display light while receiving or sending messages. Combined with the Pop-Up settings, the display can be optimized for your individual use.

For example: If you do not want any person surrounding you to recognize that you are receiving a message, you can have the application come to the fore via Pop-Up while the display light is still switched off. With many models, it is still possible to read the display without light.

- „always“: The lighting is always switched on while receiving or sending messages.
- „if keylock on“: The lighting is switched on while receiving or sending messages if the keys of your device are locked.
- „if keylock off“: The lighting is not switched on while receiving or sending messages if the keys of your device are locked. With many mobile phones, this setting will not affect outgoing calls, because pressing any key will switch on the light of the display if the keys are unlocked.
- „never“: The lighting is not influenced by PSIptt Push-To-Talk; it will only be determined by your mobile phone´s operating system.

3.3.4 Hotkeys

The adjustments for hotkeys will be introduced in the next version of PSIptt Push-To-Talk.

3.3.5 Advanced

Expanded adjustments will be introduced in the next version of PSIptt Push-To-Talk.

3.3.6 Account

Using *Options -> Settings -> Account*, you can carry out all settings concerning your registration to the server.

There are two fields within the setting:

- „User“
- „Connect“.

User

In the field „User“ you can fill in or change your registration data. There are different settings, depending on your way of registration.

- With „Login-Method“ as way of registration, „IMSI“ and „Username“ are supported. „IMSI“ is your specific SIM-card registration number which identifies you as a user. If the administrator has used „IMSI“ to register you at the server, this is the easiest way of registration (which I also defined as standard). Further, for a registration via „IMSI“, you only need your password.
- „Username“ represents your PSIptt user name. The setting for „Username“ can only be adjusted, if this way of registration was chosen. „Username“ is determined by the administrator.
- „Customer“ is the name for a closed area of the server which is only accessible for those users sharing a common group. „Customer“ is given to you by the administrator.
- „Password“ is your personal password which is given to you by the administrator.

Connect

In the field „Connect“, settings for the access to your server for PSIptt Push-To-Talk via the internet can be adjusted.

- „Host“ is the name of your server; in general it is „ptt.psi.de“.
- „Port“ is a numerical value which unambiguously identifies a service on your server; for PSIptt in general it is 4374.
- „Access Point“ is the point of access which you need to establish a connection to the internet via your phone, to connect to the server. The point of access possibly has to be activated by your provider. An appropriate data charge to settle your connection is obligatory. **Beware: Without an appropriate data charge extremely high costs may occur! Pay attention to select the correct access point for your chosen data charge.**

3.4 Informations about software status

Using *Options -> About* you can achieve general information about the system status.

The About-window shows the software version installed; „Server“ shows hostname und port of the server, you are registered on.

„User“ and „Customer“ state your account informations while you are connected to the server. „IMSI“ gives you the opportunity to read your specific SIM-card registration number which generally works as an identification mark to your server.

The „Positioning“-entry states which kind of positioning is used (On(Auto), Cellbased or Off).